bs-23967R **[Primary Antibody]**

Smad4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4089 **SWISS:** Q13485

Target: Smad4

Immunogen: KLH conjugated synthetic peptide derived from human Smad4: 1-100/552.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Smad 4 is a member of the Mothers Against Dpp (MAD)-related family of proteins. So far, eight Smads have been identified and can be divided in 3 subgroups based on their structure and functions; pathway-restricted, common mediator and inhibitory Smad. Smad 4 is the common Smad (co-Smad). Previously identified as the tumor suppressor DPC4 (deleted in pancreatic carcinoma, locus 4), Smad 4 is functionally distinct among the Smad family, and is required for the assembly and transcriptional activation of diverse, Smad-DNA complexes. In contrast to the R-Smads, Smad 4 is not regulated by phosphorylation, but acts as a common mediator of TGF-Beta, activin, and bone morphogenetic protein signaling responses. Smad 4 is frequently inactivated in pancreatic, biliary and colorectal tumors.

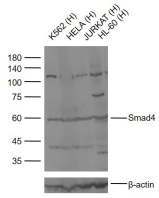
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Horse)

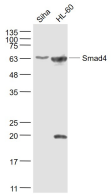
Predicted MW.: 60 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



bs-23967R_AH05218819_20211015 Smad4 (60kD)Sample: Lane 1: Human K562 cell lysates Lane 2: Human Hela cell lysates Lane 3: Human Jurkat cell lysates Lane 4: Human HL-60 Cell Lysates Primary: Anti-Smad4 (bs-23967R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kDa Observed band size: 60 kDa



Sample: Siha(Human) Cell Lysate at 30 ug HL-60(Human) Cell Lysate at 30 ug Primary: Anti-Smad4 (bs-23967R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 63 kD

SELECTED CITATIONS

- **[IF=2.8]** Mingna Li. et al. Transforming growth factor-β1 mediates the SMAD4/BMF pathway to regulate ovarian granulosa cell apoptosis in small tail Han sheep. THERIOGENOLOGY. 2023 Nov;: WB ;Sheep. 37979327